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TI Ceramic filters  
PA Japan Automobile Research Institute, Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 3 pp.  
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DT Patent  
LA Japanese  
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ICA B01D046-00; B01D053-36  
CC 57-2 (Ceramics)

Section cross-reference(s): 59

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PRAI	JP 1981-61697		19810423		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 57176109	IC	B28B001-38IC B01J035-04IC B01J037-02
	ICA	B01D046-00; B01D053-36

AB Organic structural materials having many continuous holes are impregnated with a slurry containing ceramic powder, **water**, an organic binder, and a deflocculant for viscosity adjustment, dried, and fired to give ceramic filters especially useful for exhaust gas purification. Thus, a cylinder having many continuous holes and made from a polyurethane foam was impregnated with a slurry containing cordierite 1500, poly(vinyl alc.) 100, water 2500, and Na silicate 4 parts, dried, and fired to give a filter. When air was passed through the filter at 800 L/min, the pressure loss was 40-50 mm Hg, compared to 80-90 with a slurry containing no Na silicate.

ST **cordierite** ceramic filter; polyurethane foam ceramic filter  
prepn; **sodium silicate cordierite** filter

IT Filtering materials

(**cordierite** ceramic, containing Na silicate for low pressure loss, for exhaust gas purification)

IT Ceramic materials and wares

(**cordierite**, containing Na silicate, for filters with low pressure loss, for exhaust gas purification)

IT Exhaust gases

(filters for, from **cordierite** ceramics containing Na silicate for low pressure loss)

IT Urethane polymers, uses and miscellaneous

RL: SPN (Synthetic preparation); PREP (Preparation)

(foams, in **cordierite** ceramic filter preparation with **sodium silicate**, for exhaust gas purification)